

ABSTRACT

Reverse osmosis sea water desalination system, which comprises a reverse osmosis membrane, a boost pump 5 and a feed device for distributing the water supplied by the pump and using the pressure of the water rejected by the membrane, wherein the feed device (2) comprises two hydraulic cylinders (7) and (8), each consisting of two jacketed cylinders (71, 72) and (81, 82), respectively 10 that face one another and are each fastened to intermediate bodies (73) and (83) respectively, with two separate chambers (74, 75) and (84, 85), the pistons (76, 77) and (86, 87) of which are connected by common rods (78) and (88) respectively, a central 15 interconnection body (9) that is fastened to the intermediate bodies (73, 83), which have a number of internal pipes that enter the chambers (74, 75, 84, 85) and enter pipes that (12) communicate with the front (7a, 7b, 8a, 8b) and rear (7c, 7d, 8c, 8c) cavities and 20 a number of sliding pieces (10) and (11) that are housed in the chambers (74, 75, 84, 85) and can move between two end positions.

REVERSE OSMOSIS SEA WATER DESALINATION SYSTEM

This system comprises: a reverse osmosis membrane, a boost pump and a feed device for distributing the pressurised water supplied by the pump and using  
5 the pressure of the water rejected by the osmosis membrane. The feed device comprises: a first hydraulic cylinder (7) and a second hydraulic cylinder connected to one another by a central interconnection body (9) that establishes different connections between the hydraulic cylinders according to the position of a number of sliding pieces that are housed in the first and second hydraulic  
10 cylinder and which move along the rods (78, 88) of the cylinders (71, 72) (81, 82) of said hydraulic cylinders.